

## GILA RIVER BASIN

09482420 JULIAN WASH AT TUCSON, AZ

LOCATION.--Lat 32°10'15", long 110°56'25", SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.32, T.14 S., R.14 E., Pima County, Hydrologic Unit 15050302, 1,600 ft above confluence with Tucson Diversion channel, and 0.5 mi south of Ajo Road in Tucson.

DRAINAGE AREA.--26.5 mi<sup>2</sup>.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1970	07-19-70	1,270		1976	09-25-76	1,050	
1971	08-20-71	1,050		1977	09-09-77	680	
1972	07-16-72	440		1978	10-06-77	395	
1973	10-19-72	330		1979	07-29-79	190	
1974	07-07-74	130		1980	09-07-80	435	
1975	07-12-75	112		1981	03-02-81	400	

Magnitude and probability of instantaneous peak flow based on period of record 1970-81

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25†	50†	100†
50%	20%	10%	4%	2%	1%
428	817	1,130	1,570	1,930	2,310
Weighted skew	(logs) =	-0.22			
Mean	(logs) =	2.62			
Standard dev.	(logs) =	0.34			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
38.9	17.3	2,900	1.9	1.0	11.0	1.7	4.0

